

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

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Printing date: 27.11.2025

Revision: 27.11.2025

Version number 6.0 (replaces version 5.0)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Identification of the substance/preparation: Special cleaner for refrigerators 312475, 312476

UFI: 2QMK-2T3Y-J507-3JU0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Application of the substance / the mixture Cleaning material/ Detergent

Uses advised against No further relevant information available.

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification:

ORO-Produkte Marketing International GmbH

Im Hengstfeld 47

D-32657 Lemgo

phone +49 (0)5261 28893-0

fax +49 (0)5261 28893-48

Distributor:

BSH Home Appliances Ltd.

M50 Business Park

Ballymount, Dublin 12

Ireland

Telephone: 01450 2655

E-mail: mks-spares-ie@bshg.com

Further information obtainable from:

Quality Assurance Department

E-mail: info@oro-marketing.de, www.oro-marketing.de

1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 am to 10.00 pm. 7 days a week).

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Additional information:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Regulation (EC) No 648/2004 on detergents / Labelling for contents

perfumes, preservation agents (pyrithione sodium, BENZISOTHIAZOLINONE)

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Cleansing agent

Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 ATE: LD50 ₅₀ oral: 5.840 mg/kg/bw LD ₅₀ dermal: >5.000 mg/kg/bw LC ₅₀ /4h inhalative: >10.000 mg/l	1-5%
CAS: 2634-33-5 EINECS: 220-120-9	1,2-Benzisothiazol-3(2H)-on (BENZISOTHIAZOLINONE) ⚠ Acute Tox. 2, H330; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 ATE: LD50 ₅₀ oral: 450 mg/kg/bw LC ₅₀ /4h inhalative: 0,21 mg/l Specific concentration limit: Skin Sens. 1; H317: C ≥ 0,036 %	<0,025%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Rinse with warm water.

If skin irritation continues, consult a doctor.

After each cleaning use treatment creams, for very dry skin greasy ointments.

After swallowing:

Do not induce vomiting.

Rinse out mouth and then drink plenty of water.

Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Danger of forming toxic pyrolysis products.

Carbon oxides (CO_x)

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5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Observe information on the label and follow instructions for use.

Avoid contact with eyes.

Avoid close or long term contact with the skin.

Wash hands before breaks and immediately after handling the product.

Keep away from food, drink and animal feedingstuffs.

See Section 8 for information on personal protection equipment.

No special measures required.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions:

Keep out of reach of children.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Storage class: 10

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7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values:

CAS: 67-63-0 propan-2-ol

AGW (Germany) Long-term value: 500 mg/m³, 200 ppm
2(II);DFG, Y

CAS: 2634-33-5 1,2-Benzisothiazol-3(2H)-on (BENZISOTHIAZOLINONE)

MAK (Germany) vgl.Abschn.IIb und Xc

DNELs

CAS: 67-63-0 propan-2-ol

Oral	Systemic effect, long-term exposure	26 mg/kg bw/day (General population)
Dermal	Systemic effect, long-term exposure	319 mg/kg bw/day (General population) 888 mg/kg bw/day (Workers)
Inhalative	Systemic effect, long-term exposure	89 mg/m ³ (General population) 500 mg/m ³ (Workers)

PNECs

CAS: 67-63-0 propan-2-ol

Water	140,9 mg/l (Fresh water) 140,9 mg/l (Marine water)
Sewage treatment plant (STP)	2.251 mg/l (unspecified)
Sediment	552 mg/kg dw (Fresh water) 522 mg/kg dw (Marine water)
Soil	28 mg/kg soil dw (Soil)
Secondary poisoning, oral	160 mg/kg Futter (Predator)

Ingredients with biological limit values:

CAS: 67-63-0 propan-2-ol

BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
	25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

Filter A-P2

Hand protection

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0,35$ mm

Value for the permeation: Level 6

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Eye/face protection Goggles recommended during refilling

Body protection: Not required.

Environmental exposure controls Follow instructions for use, dosage and waste disposal.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Colour:	Colourless
Odour:	Scented
Odour threshold:	Not determined.
Melting point/freezing point:	0 °C
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>60 °C (Seta Flash Closed Cup)
Decomposition temperature:	Not determined.
pH at 20 °C	7-8
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.

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Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not relevant
	Not determined.
Density and/or relative density	
Density at 20 °C:	0,997 g/cm ³
Relative density	Not determined.
Vapour density	Not relevant
	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	<3 %
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability No decomposition if used and stored according to specifications.

Conditions to avoid: No decomposition if used according to specifications.

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10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid

Contact with incompatible materials.
Protect from heat and direct sunlight.

10.5 Incompatible materials:

strong alkalis
strong oxidising agents
Strong reducing agents

10.6 Hazardous decomposition products:

No decomposition if used according to specifications.
Thermal decomposition:
Carbon oxides (COx)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Oral	ATE _{mix}	>5.000 mg/kg (calculated value)
Inhalative	ATE _{mix}	>20 mg/l (calculated value)

CAS: 67-63-0 propan-2-ol

Oral	LD50 ₅₀	5.840 mg/kg/bw (ATE) (OECD 401) rat
Dermal	LD ₅₀	>5.000 mg/kg/bw (ATE) (OECD 402) rat
Inhalative	LC ₅₀ /4h	>10.000 mg/l (ATE) (OECD 403) rat

CAS: 2634-33-5 1,2-Benzisothiazol-3(2H)-on (BENZISOTHIAZOLINONE)

Oral	LD50 ₅₀	450 mg/kg/bw (ATE)
Inhalative	LC ₅₀ /4h	0,21 mg/l (ATE)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Ingestion:

Nausea

Inhalation:

No further relevant information available.

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Skin Contact:

Prolonged or repeated skin contact may lead to degreasing effects on skin.

Eye Contact:

The product may cause temporary irritation if it comes into direct contact with the eyes.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Based on available data, the classification criteria are not met.

CAS: 67-63-0 propan-2-ol

LC₅₀/96h 9.640 mg/l (Fish) (OECD 203)

NOEC 1.800 mg/l (Algae)

LC₅₀/24h >10.000 mg/l (Daphnia magna) (OECD 202)

General information: Not known to be hazardous to water.

12.2 Persistence and degradability

CAS: 67-63-0 propan-2-ol

Biodegradability >0,5 BOD₅/COD (Microorganisms)

12.3 Bioaccumulative potential

CAS: 67-63-0 propan-2-ol

Bioaccumulation potential 0,05 log K_{ow} (calculated value)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Behaviour in sewage processing plants:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. Before allowing large quantities to be fed into sewage plants, obtain the approval of the responsible authorities.

Other information:

General information:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

European waste catalogue

20 01 30	detergents other than those mentioned in 20 01 29
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15 01 02	plastic packaging
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Uncleaned packaging:

Recommendation:

Packaging may be reused or recycled after cleaning.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA	Void
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14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA	Void
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14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA Class	Void
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14.4 Packing group

ADR/RID, IMDG, IATA	Void
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14.5 Environmental hazards:

Marine pollutant:	No
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14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

UN "Model Regulation":

Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Labelling according to EC guidelines: .

Directive 2012/18/EU Not applicable

Named dangerous substances - **ANNEX I** None of the ingredients is listed.

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Regulation (EU) No 649/2012

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Other regulations (EC): Directive 94/33/EC

Other regulations (EC): Directive 98/24/EEC

Other regulations (EC): Regulation (EC) No 648/2004

Other regulations (DE): WRMG, WHG, AwVS

Relevant technical rules (D): TRGS 400, 401, 402, 500, 555, 900

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Training hints Make sure that users are appropriately informed, instructed and trained.

Classification according to Regulation (EC) No 1272/2008 Calculation method:

Department issuing SDS:

Quality Assurance Department

E-mail: info@oro-marketing.de, www.oro-marketing.de

Version number of previous version: 5.0

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

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DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
AGW: Arbeitsplatzgrenzwert (Workplace exposure limit)
DFG: Deutsche Forschungsgemeinschaft MAK- und BAT-Werte-Liste, Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, WILEY-VCH, Weinheim (German Research Foundation MAK and BAT values list, Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area, WILEY-VCH, Weinheim)
Y: Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden (There is no need to fear fetal impairment if the occupational exposure limit value and the biological limit value (BGW) are complied with.)
EC50: effective concentration, 50 percent
OECD: Organization for Economic Co-operation and Development
ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IBC: Intermediate bulk container
MARPOL: Marine Pollution
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
NOEC: No observed effect concentration
ATE: Acute toxicity estimates
AwVS: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Regulation on systems for handling with water hazardous substances)
UN: United Nations
PT2: Product type 2
EG: Europäische Gemeinschaft (European community)
WHG: Wasserhaushaltsgesetz (Water Resources Act)
WRMG: Wasch- und Reinigungsmittelgesetz (Detergents and Cleaning Products Act)
Reg.nr.: Registration number
bw: body weight
dw: dry weight
M: Multiplikationsfaktor (Multiplication factor)
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Sources Safety data sheet for raw materials, eur-lex.europa.eu, echa.europa.eu

*** Data compared to the previous version altered.** Replaces version 3,0